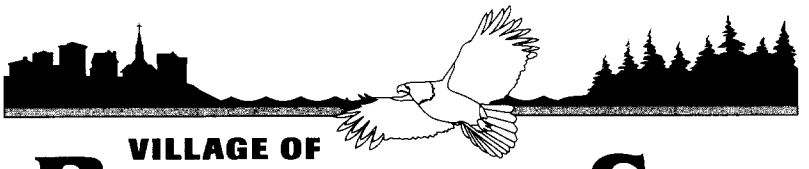

VILLAGE OF
PRAIRIE DU SAC
• MUNICIPAL & UTILITY OFFICES •

335 Galena Street • Prairie du Sac, WI 53578 • 608-643-2421 Fax 608-643-7927

05-GF-113
(4830)

Prairie Du Sac Utilities
335 Galena Street
Prairie du Sac, WI 53578-1008
608-643-2421

January 8, 2003

Mr. Scot Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of Prairie du Sac Utility's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

P.J. Drone

Patrick Drone
Director of Public Works/Utilities

Enclosures

RECEIVED
JAN 2003
Electric Division

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

Prairie du sac Utilities

FILING DEADLINE
FEBRUARY 1, 2003

January 8, 2003

Patrick Drone

Director of Public works/Utilities

335 Galena Street

Prairie du Sac, WI 53578-1008

608-643-2421

pdrone@wppisys.org

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (69Kv)			
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. N/A
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

It is the goal of this utility to make all repairs rated critical and higher on the day they have been identified. We have met that goal for the two-year reporting period. Repairs rated non-critical and below are generally repaired on the same day unless materials on unavailable. Our goal is to complete those repairs within 7 days of delivery of materials.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
Inspected Industrial Park circuit in 2001. All locking devices were inspected and penta bolts were replaced if needed. All UG pedestals and transformers are checked for 13 operating parameters. One transformer was changed out, elbows were inspected and damaged units were replaced and phases were marked red, white and blue or A, B or C. All over head lines were checked for clearances. Additional lighting protection was added to the system. Based on inspections all equipment is in good condition Inspected the Hospital circuit in 2002. All UG pedestals and transformers are checked for 13 operating parameters. All locking devices were inspected and penta bolts were replaced if needed. All over head lines were checked for clearances, elbows were inspected and damaged units replaced, and phases were marked red, white and blue or A, B or C. Additional lighting protection was added to the system. Based on inspections all equipment is in good condition	Visual inspections and readings are done each month. Oil samples taken annually. Full Substation inspections performed biannually. Infrared testing is performed every two years. Based on these inspections all substation equipment is in good condition.

VIII Scheduling Goals Established and Success of Meeting the Criteria:

It is this utility's goal to complete all monthly substation inspections, an annual oil inspection and to inspect 20% of the distribution system annually. In addition, we expected to complete all scheduled maintenance resulting from the inspections within the prescribed time periods specified in the rating criteria.

All of the inspection goals were met or exceeded. 20% of the distribution system was inspected. 1 urgent maintenance item was found and repaired within 7 days. All the priority and non-critical maintenance items found, were repaired within 7 days. The Industrial park circuit will have 2200 feet of new conductor and 10 new poles in 2003.

IX Facility condition – rating criteria:

During the past two years, 40% of the distribution system was inspected and all substation inspections were completed on time. Of the items found requiring maintenance, all were repaired before they were responsible for an outage to customers. Storm related outages have been minimal and equipment failure only accounted for 6 outages affecting 35 residential customers and 1 commercial customer. Most of the overhead system is less than 15 years old and is in excellent condition. Underground equipment is being replaced as needed. The overall condition electric system is excellent.